

COMMERCIAL BUILDING ENERGY ASSET RATING Pilot Project Training Session

3:00PM ET / 12:00 PM PT May 17, 2012 11:00AM ET / 8:00 AM PT May 18, 2012

Nora Wang Will Gorrissen

(Pacific Northwest National Laboratory)

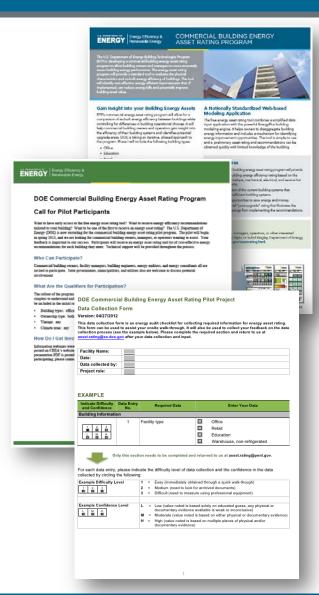
Introduction



- You should have received:
 - Energy Asset Rating Fact Sheet
 - Pilot Program Overview
 - Data Collection Form

Latest versions can be found at https://assetrating.labworks.org/ until the new energy asset rating website is released.

- Energy Asset Rating website
 http://www1.eere.energy.gov/buildings/commercial_initiative/asset rating.html
- Pilot information webinar and FAQ about the pilot program httml#arpilot_20120312
- Energy Asset Rating Tool and User Guide https://assetrating.labworks.org/



Participant Actions



Provide point of contact, building information, and identify level of involvement Receive pilot project starter kit (program overview, data collection sheet) Participate in a training webinar [Today] Complete the pre-rating online questionnaire (4 questions) [Next week] Receive your user account for the energy asset rating tool You can Collect data and enter into the energy asset rating tool proceed before Submit feedback on data collection (See data collection form) receiving the Provide energy model and/or utility bills (for Partner only) user account Complete post-rating online questionnaire (21 questions)

Pre-rating Questionnaire



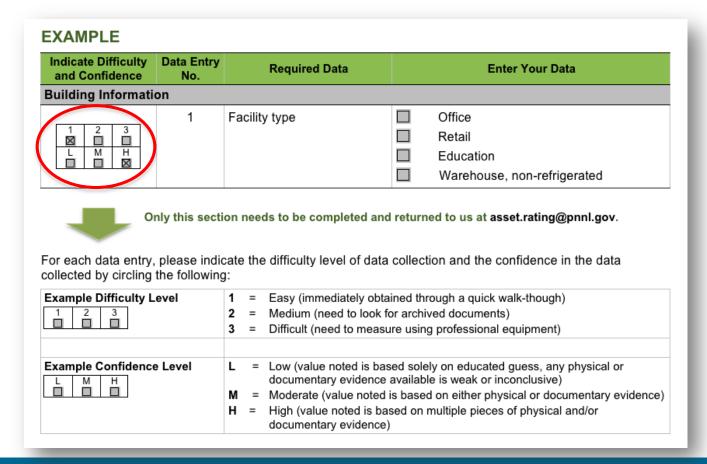
- You will receive an email with a unique link
 - 4 questions
 - Prepopulated building names
- Complete the questionnaire BEFORE you start the data collection and BEFORE you use the tool.

Energy Asset Rating Pilot Project 1ES1				
Pre-Rating Questions				
This brief survey should be completed before you conduct building Energy Asset Rating. The purpose of these questions is to compare your impressions of building efficiency to your actual findings.				
If you have questions or need help with the survey or with your energy asset rating please contact the energy asset rating project team.				
1. How do you currently compare or track the energy use of your building(s)? (Choose all that apply.) Using my company's internal documentation like spreadsheets Using ENERGY STAR Portfolio Manager Using green building certification system like LEED, Green Globes, etc. Using other free tool (please specify) Using a paid service/tool (please specify) Not currently comparing or tracking energy efficiency				
Next				
Questions? Contact the energy asset rating project team.				

Data Collection

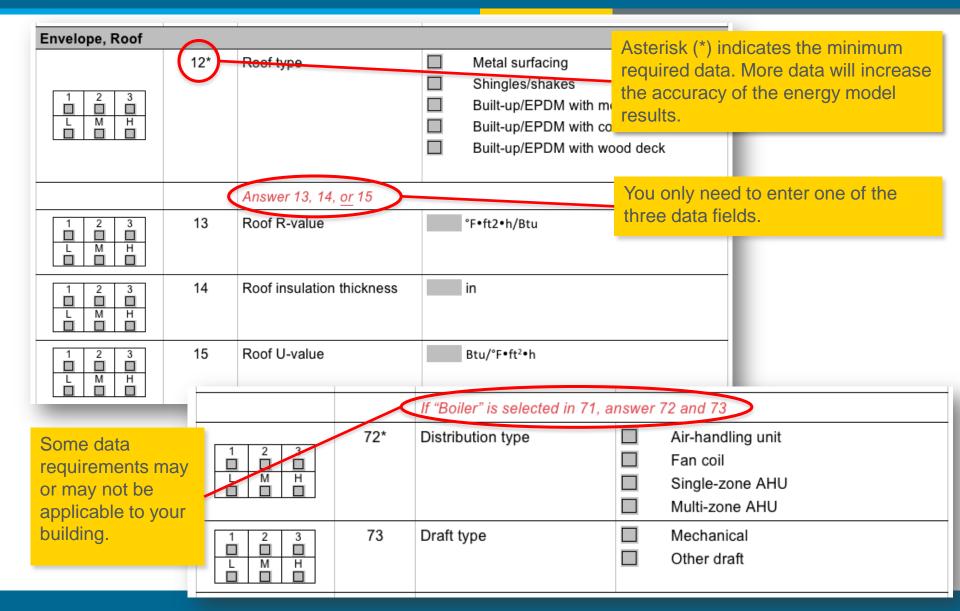


- Use Data Collection Form during your site walkthrough
- Indicate difficulty and confidence levels for each data entry
- Return the completed data collection form to <u>asset.rating@pnnl.gov</u>



Data Collection





Energy Asset Rating Tool

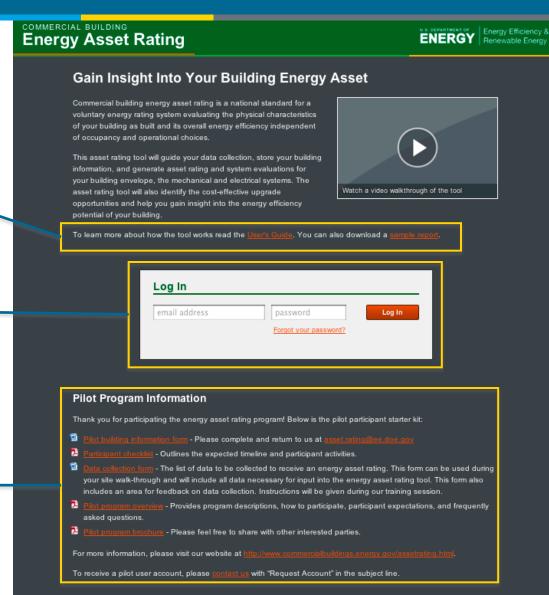


https://assetrating.labworks.org/

Download User Guide and Sample Report

Receive your login ID (your email) and password in email

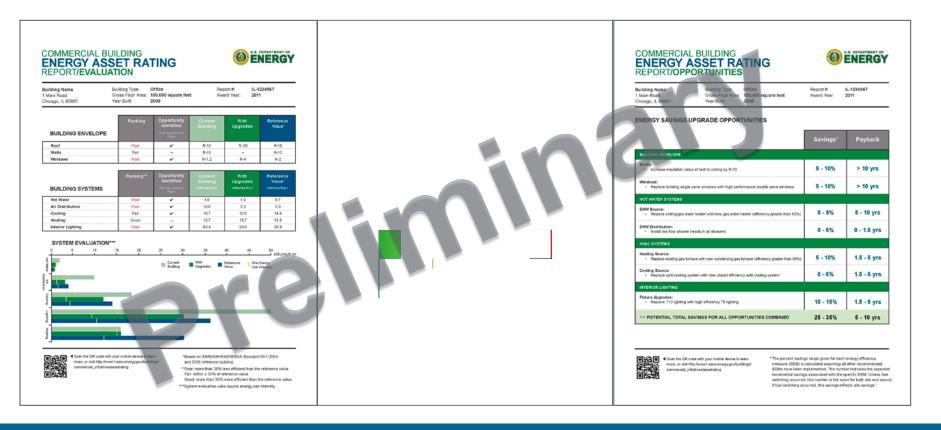
Download program information and training materials



Energy Asset Rating Report



- Receive an email notification when your report is ready.
- All reports received during the pilot period is preliminary.
- The modeled results might be changed when the tool is revised during the pilot stage.



Post-rating Questionnaire



- You will receive an email with a unique link
 - 21 questions
 - Prepopulated building names
- Complete the questionnaire AFTER you receive your rating report.



Stoff Ovalifications

each other's data.

Other (briefly describe)

Proudly Operated by Battelle Since 1965

Energy Asset Post-Rating Survey

Which best describes your data verification process? (Choose all that apply.)
 One person gathered and input data that was NOT verified by another party.
 One person gathered and input data that was verified by another party.

One person led a data gathering effort and the data was NOT verified by another party. One person led a data gathering effort and the data was verified by another party.

St	an Quanneauons
1. V	What are your qualifications and experience with building energy systems? (Choose all that apply.) Certified Energy Auditor or Assessor (specify certification and date received)
	Building owner with experience in design and operations (specify years of ownership/experience) Professional Engineer (P.E.) Registered Architect (R.A.)
	Energy auditing, energy management, facility management experience or other experience related to energy management experience)
2. V	Other (please describe) Which best describes your approach to completing the data energy collection sheet? (Choose all that apply.) One person gathered data and relied on various written resources (e.g., equipment documentation, design plans, etc.) One person led data gathering effort with help from building personnel or consultants with expertise in different areas.
	Team members with different roles and expertise completed data energy collection sheet. Other (please describe)

Team members with different roles and expertise completed the data energy collection sheet and team members verified

Two Levels of Participation



Energy Asset Rating Partner / Associate

Qualification			Partner (3 options)			Associate
1	Data collection	A building	X	X	Х	X
2	Model accuracy	Existing audit report/model	Х		Х	
3	Rating relevance	ENERGY STAR Portfolio Manager experience		X	X	

Partners need to provide:

ENERGY STAR rating and 12 months utility information OR existing energy audit report and energy model OR Both

Complete the additional building information form and return to asset.rating@ee.doe.gov

Partners ONLY



To share your energy audit/model result

Energy audit was conducted on (da	te)			
Energy model was built on (date)				
Weather Data used in Simulation				
Software used to build energy mode	el (Name an	d version)		
Has the energy model be calibrated	? (Yes/No)			
Model Assumptions		Recommendations (List the top five ret	trofit recommendations from the energy audit or model.)	
Operating hours per week		1.		
T	wint	2.		
Temperature setpoint (F)	sum	3.		
Plug load (W/ft²)		4.		
Gas miscellaneous load (kBtu/ft²)		5.		
Lighting power density (W/ft²)		L		
No. of occupants		Model Results		
Air exchange rate		Heating		
			Cooling	
		Modeled energy use intensity by system (kBtu/ft²)	Lighting	
			Ventilation	
			Service hot water	
			Miscellaneous	
			Others	

Partners ONLY



To share your ENERGY STAR rating and utility information

ENERGY STAR rating and utility information		
You can find the following information from your Portfolio Man	ger site.	
ENERGY STAR rating received year (most recent year)		
ENERGY STAR rating (1-100)		
Indicate your building's space type and complete the correspond	onding fields.	
Space Type		
	12 mor	ths energy use
Office Building Only	(Leave	the column bla
Gross Floor Area (square foot)		Ter
Weekly operating hours (hours)		Electricity U
Workers on Main Shift		(kWh)
Number of PCs	Jan	
What percent of this space is air-conditioned	Feb	
What percent of this space is heated	Mar	
School Building Only	War	
Gross Floor Area (square foot)	Apr	

12 months energy use information (Leave the column blank if the fuel type is not applicable to your building.)

	Electricity Use	Electricity Peak	Gas Use	District Steam	Other Fuel Use
	(kWh)	(kW)	(therm)	(1000 lbs)	(kBtu)
Jan					
Feb					
Mar					
Apr					
May					
Jun					
Jul					
Aug					
Sep					
Oct					
Nov					
Dec					
Annual					

Workers on Main Shift

Presence of cooking facilities

Gross Floor Area (square foot) Weekly operating hours

Number of PCs

Retail Building Only

Is this building normally open at all on the weekends?

Number of open or closed refrigeration/freezer cases Number of walk-in refrigeration/freezer units

Number of walk-in refrigeration/freezer units

Percent of the gross floor area that is cooled Percent of the gross floor area that is heated

Thank you



For pilot program information
Contact Nora Wang na.wang@pnnl.gov and Robin Sullivan
robin.sullivan@pnnl.gov

For tool support Contact Will Gorrissen at Will.Gorrissen@pnnl.gov

For DOE program information
Contact Subid Wagley <u>Subid.Wagley@ee.doe.gov</u>